

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P530016

Luminaire Tested: **GALN-SA5B-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21035 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

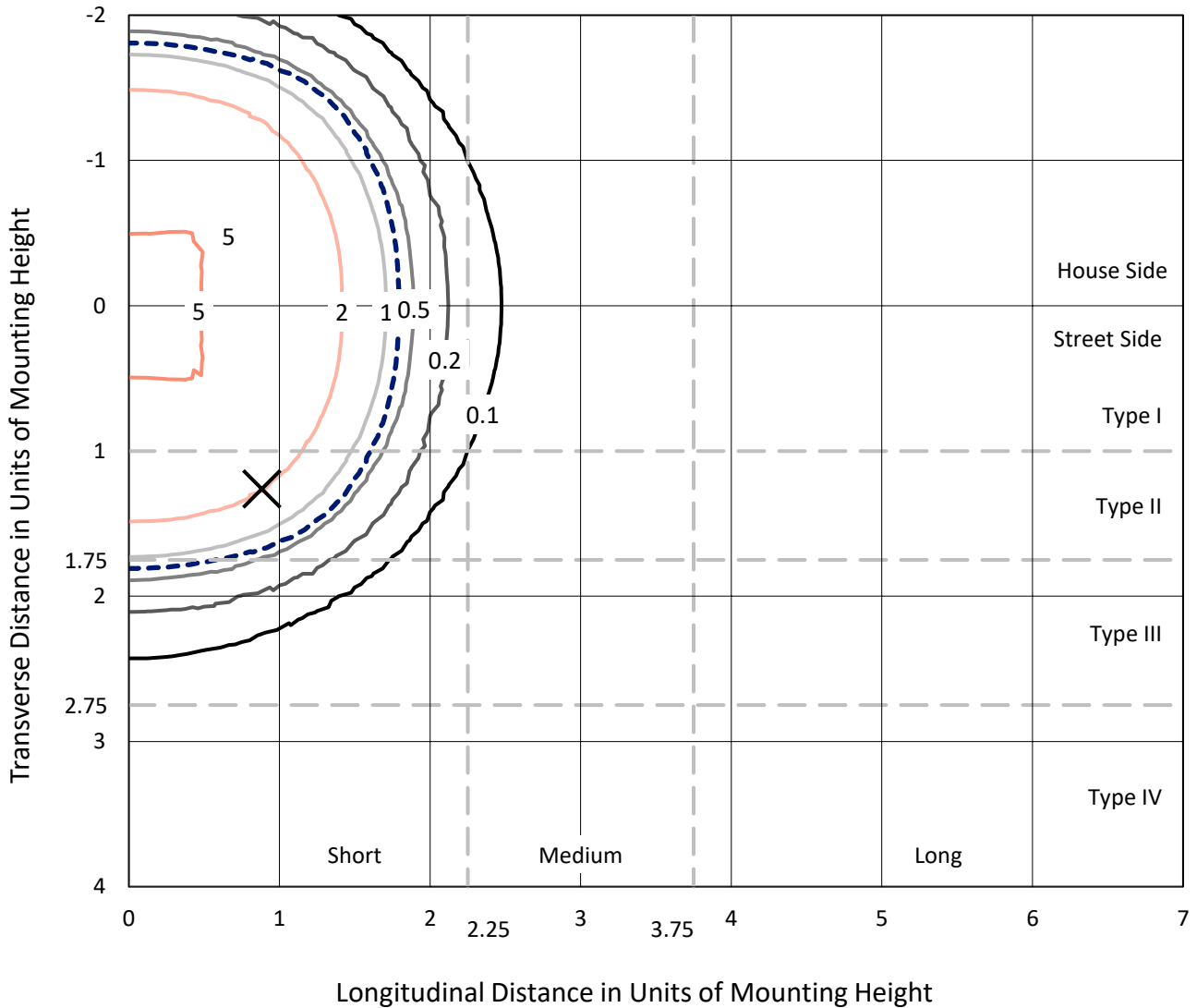
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

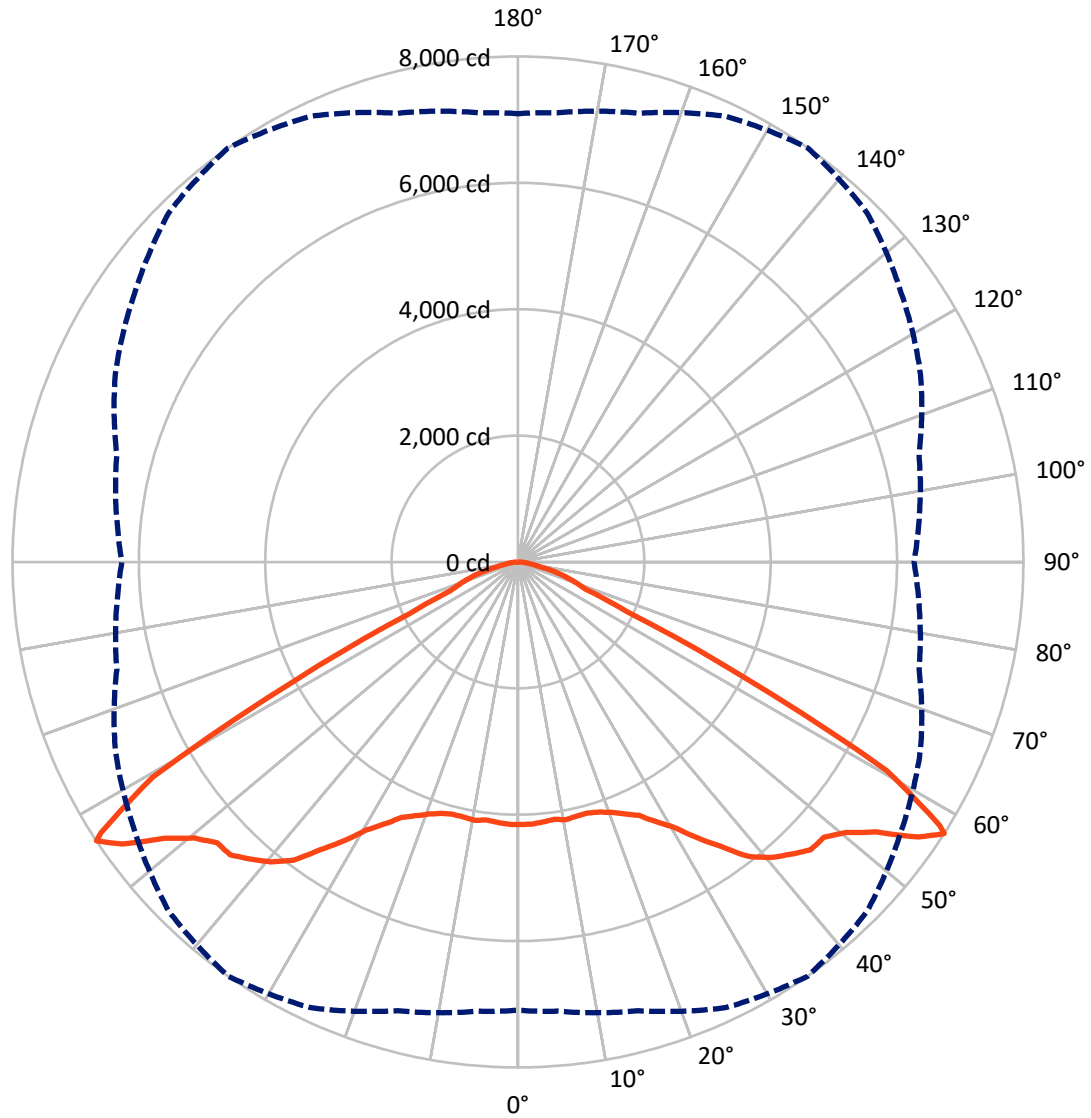
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10517.5	0.0	10517.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10517.5	0.0	10517.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21035.0	0.0	21035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.8	1.9
10°-20°	1166.4	5.5
20°-30°	2037.2	9.7
30°-40°	3338.0	15.9
40°-50°	4894.3	23.3
50°-60°	6164.7	29.3
60°-70°	2318.5	11.0
70°-80°	616.5	2.9
80°-90°	105.7	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21035.0	100.0
0°-180°	21035.0	100.0

Coefficient of Utilization

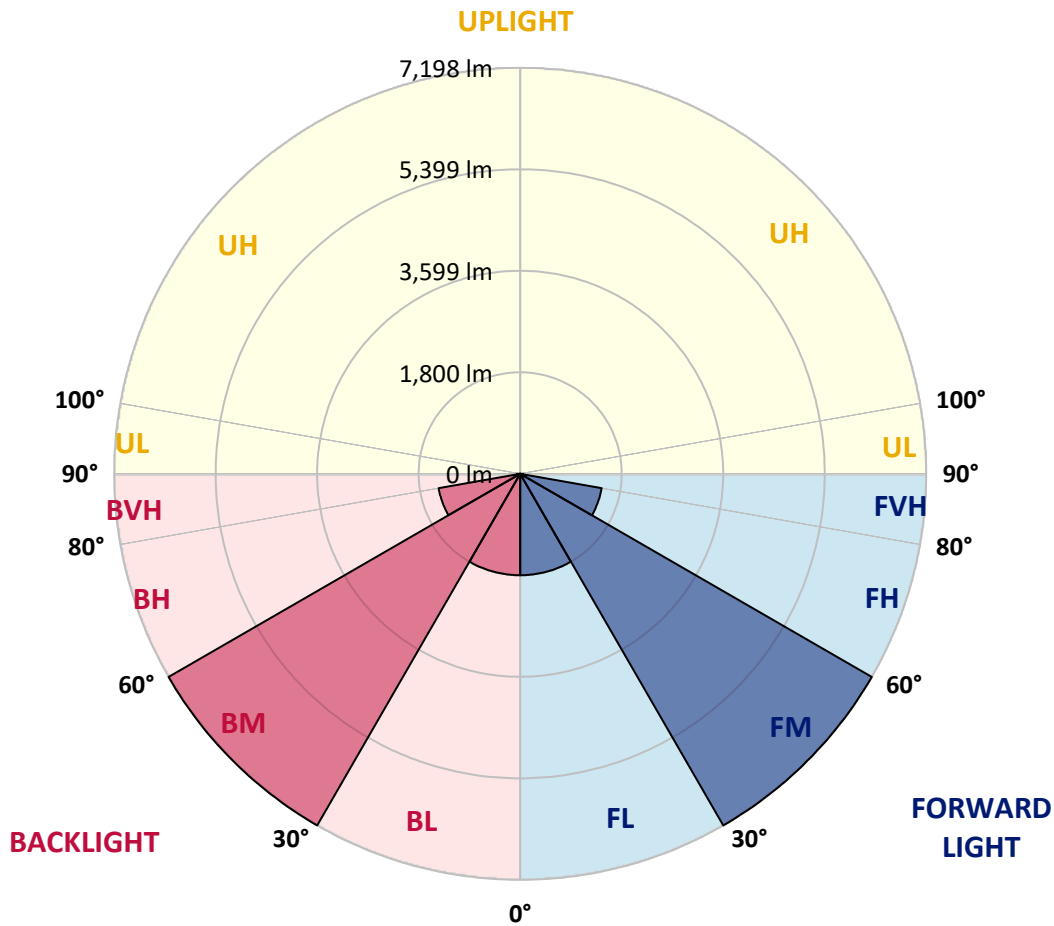


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1798.7	8.6			
FM (30°-60°)	7198.5	34.2			
FH (60°-80°)	1467.5	7.0			G1/1800
FVH (80°-90°)	52.8	0.3			G1/100
BL (0°-30°)	1798.7	8.6	B3/2500		
BM (30°-60°)	7198.5	34.2	B4/8500		
BH (60°-80°)	1467.5	7.0	B3/2500		G1/1800
BVH (80°-90°)	52.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3	4154.3
2.5°	4133.5	4175.0	4156.8	4146.5	4154.3	4141.3	4120.6	4143.9	4138.7	4118.0	4110.2
5°	4123.2	4154.3	4133.5	4154.3	4133.5	4169.8	4159.4	4120.6	4167.2	4123.2	4138.7
7.5°	4115.4	4125.8	4130.9	4120.6	4112.8	4156.8	4133.5	4115.4	4089.5	4081.7	4094.7
10°	4097.2	4123.2	4084.3	4136.1	4146.5	4115.4	4115.4	4081.7	4061.0	4048.0	4092.1
12.5°	4143.9	4099.8	4094.7	4120.6	4128.3	4141.3	4105.0	4086.9	4048.0	4053.2	4045.4
15°	4089.5	4107.6	4110.2	4115.4	4123.2	4154.3	4120.6	4081.7	4066.1	4011.7	4016.9
17.5°	4110.2	4092.1	4110.2	4169.8	4159.4	4182.8	4146.5	4086.9	4050.6	4019.5	4061.0
20°	4146.5	4138.7	4146.5	4219.0	4232.0	4252.7	4221.6	4167.2	4097.2	4061.0	4081.7
22.5°	4185.4	4180.2	4185.4	4255.3	4330.5	4356.4	4325.3	4198.3	4162.0	4094.7	4071.3
25°	4255.3	4260.5	4314.9	4392.7	4441.9	4491.2	4434.1	4343.4	4226.8	4185.4	4136.1
27.5°	4410.8	4423.8	4454.9	4568.9	4654.4	4698.5	4618.1	4493.8	4421.2	4335.7	4322.7
30°	4602.6	4602.6	4657.0	4755.5	4872.1	4939.5	4841.0	4693.3	4605.2	4558.5	4530.0
32.5°	4856.6	4828.1	4848.8	5022.4	5203.8	5260.9	5128.7	4947.3	4807.3	4745.1	4724.4
35°	5074.3	5092.4	5139.0	5325.6	5527.8	5659.9	5452.6	5216.8	5074.3	5017.2	5006.9
37.5°	5356.7	5387.8	5411.2	5667.7	5911.3	5960.6	5761.0	5571.8	5398.2	5351.6	5325.6
40°	5755.8	5735.1	5742.9	5932.1	6152.3	6183.4	5986.5	5851.7	5709.2	5680.7	5680.7
42.5°	6085.0	6061.6	6087.6	6157.5	6326.0	6302.7	6193.8	6095.3	6035.7	6004.6	6035.7
45°	6284.5	6279.3	6326.0	6377.8	6497.0	6419.3	6333.8	6349.3	6292.3	6240.5	6237.9
47.5°	6502.2	6468.5	6525.5	6603.3	6512.6	6476.3	6471.1	6504.8	6486.7	6395.9	6367.4
50°	6608.5	6595.5	6686.2	6776.9	6727.7	6644.7	6662.9	6717.3	6484.1	6362.3	6292.3
52.5°	6893.5	6896.1	7069.8	7119.0	7098.3	6976.5	7015.3	6867.6	6592.9	6421.9	6429.6
55°	7341.9	7323.7	7518.1	7663.2	7686.5	7531.0	7344.5	7137.1	6792.5	6618.8	6567.0
57°	7095.7	7137.1	7352.2	7782.4	8000.1	7816.1	7409.2	7030.9	6572.2	6362.3	6269.0
57.5°	6766.5	6833.9	7207.1	7639.9	7868.0	7852.4	7328.9	6833.9	6424.5	6097.9	6105.7
60°	4957.6	4970.6	5307.5	5994.3	6706.9	6722.5	6085.0	5429.3	4973.2	4618.1	4667.4
62.5°	2614.9	2674.5	2809.2	3361.2	3978.0	4128.3	3742.2	3405.3	3011.4	2741.9	2767.8
65°	1383.9	1376.1	1440.9	1596.4	1899.6	1977.4	1925.5	1658.6	1521.2	1477.2	1479.8
67.5°	1124.7	1137.7	1129.9	1137.7	1158.4	1192.1	1184.3	1194.7	1202.5	1215.4	1212.8
70°	953.7	953.7	958.9	961.5	961.5	977.0	995.2	1028.8	1031.4	1044.4	1049.6
72.5°	751.6	746.4	754.1	772.3	774.9	787.8	813.7	834.5	842.3	842.3	826.7
75°	510.5	515.7	526.1	541.6	557.2	580.5	601.2	614.2	619.4	611.6	603.8
77.5°	287.7	292.8	300.6	323.9	342.1	362.8	386.1	399.1	412.1	414.6	399.1
80°	171.0	171.0	184.0	202.1	222.9	243.6	264.3	279.9	285.1	285.1	277.3
82.5°	103.7	106.3	116.6	134.8	152.9	165.9	184.0	197.0	207.3	204.7	199.5
85°	54.4	54.4	64.8	80.3	93.3	106.3	106.3	98.5	93.3	80.3	75.2
87.5°	18.1	15.5	20.7	20.7	18.1	20.7	20.7	23.3	23.3	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)